

Title (en)
MEDIUM VOLTAGE SWITCHING POLE

Title (de)
MITTELSPANNUNGSSCHALTPOL

Title (fr)
PÔLE DE COMMUTATION MOYENNE TENSION

Publication
EP 3671794 A1 20200624 (EN)

Application
EP 18214601 A 20181220

Priority
EP 18214601 A 20181220

Abstract (en)
The present invention relates to a medium voltage switching pole (1), comprising: a fixed contact (21) of a vacuum interrupter (20); a movable contact (22) of the vacuum interrupter; a piston (30); at least one electrical contact (41, 42, 43); a first terminal (10); and a second terminal (45). The fixed contact is fixedly connected to the first terminal. The movable contact is fixedly connected to the piston. The piston is configured to move within the second terminal along an axis. The at least one electrical contact is configured to make an electrical connection between the piston and the second terminal. An outer surface of the piston and an inner surface of the second terminal are configured such that: when in an open configuration the fixed contact and movable contact are separated from one another, wherein at least one first radial line perpendicular to the axis extends through locations of the at least one electrical contact and wherein a first distance along the at least one first radial line extends from the outer surface of the piston to the inner surface of the second terminal; and when in a closed configuration the fixed contact and movable contact are in contact with one another, wherein at least one second radial line perpendicular to the axis extends through locations of the at least one electrical contact and wherein a second distance along the at least one second radial line extends from the outer surface of the piston to the inner surface of the second terminal, and wherein the first distance is greater than the second distance.

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CPC (source: EP US)
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3671794 A1 20200624; **EP 3671794 B1 20230208**; CN 113228217 A 20210806; CN 113228217 B 20240906; US 11594386 B2 20230228; US 2021313127 A1 20211007; WO 2020126740 A1 20200625

DOCDB simple family (application)
EP 18214601 A 20181220; CN 201980084799 A 20191211; EP 2019084650 W 20191211; US 202117351277 A 20210618